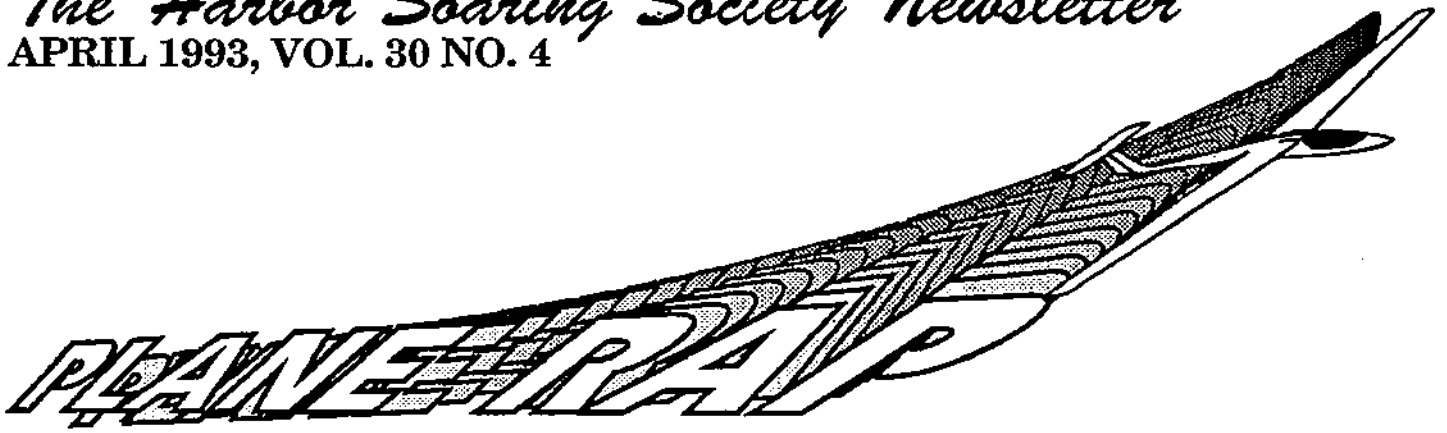


The Harbor Soaring Society Newsletter

APRIL 1993, VOL. 30 NO. 4



FROM THE PREZ

By Andy Sanders

To those club members who have never or rarely flown a contest, I encourage you to come out for the April Monthly. While there are many pilots who like to compete, most of those participating are there to sharpen their skills, gain confidence, and have a good time. Contests are an excellent opportunity to get tips from truly advanced pilots and to learn more about flying techniques.

The purpose of our club contests is to advance the flying skills of all members from the novices to the experts. Toward this end, a class system was established. New pilots start in the Sportsman category; after three first place wins, you move to Advanced. After three first place wins there, you then move to Expert. This system allows each individual to compete with a group of pilots in his or her relative skill level. Also it allows an equal opportunity for all members, regardless of skill level, to earn trophies.

A problem exists with the present structure of the system. Once a pilot reaches the Expert category, he remains there regardless of performance. As a result there are too many

Experts and too few Advanced pilots. The HSS Board is considering alternatives to restructure the system to deal with this issue. Several options are being considered including: adding a fourth "Masters" class; requiring an Expert to fly a minimum number of club contests to remain in the class; or requiring an Expert to win at least one trophy per year to remain in the class. Each approach has its plus's and minus's.

The Board is going to study this issue further and present a recommendation to the members. We would like input from all of you before this is done. Even you don't currently fly the contests, your ideas are welcomed and

(continued, page 2)

MEETING LOCATION

Lakes at Seabridge Condos. On Adams Ave. in Huntington Beach. Turn right at the first traffic light heading East from Beach Blvd.. You will need to check in at the gate. Tell the guard you are there for the HSS meeting. If there are any problems, call 969-1524.

CLUB OFFICERS

President: Andy Sanders	(714) 751-9235
Vice President: Pat Scheer	(714) 631-0482
General Director/ Secretary: Woody Grosvenor	(714) 969-1524
Treasurer: Frank Chasteler	(714) 545-2185
Contest Coord: Curt Nehring	(714) 592-2105
Newsletter Ed: Pete Young	(714) 892-3473

The Harbor Soaring Society newsletter is published monthly. Editorial comments and articles are welcomed. Please provide all material for consideration by the 15th. of the month prior to publication. Wordprocessed material is appreciated (any major IBM compatible disk format and program). Handwritten material must be clear and legible. The editor reserves the right to edit all material. Submissions should be made to Pete Young in person or by mail to: 6592 Belgrave Ave., Garden Grove, CA 92645.

**Printing Courtesy of OCB Reprographics
Irvine, CA (714) 660-1150**

FROM THE PREZ, cont.

important since the decision may affect you in the future. Please give the problem some thought and let the board members know your opinion, keeping in mind the basic premise of club contests.

The April Monthly will be flown on Sunday the 18th. The date was changed since the Fresno gathering is on April 3rd and 4th, and April 11th is Easter Sunday. I hope to see some new participants at the contest. This time of year brings some of the season's best "air" so conditions should be excellent. It is also a good opportunity to enjoy our grass landing area while it lasts. So bring out your plane and join in the fun, I guarantee you won't be disappointed or bored.

MARCH MEETING MINUTES

The March meeting commenced at 7:45PM with Andy Sanders presiding. Tom Denny is a newcomer to the hobby; he has an Explorer 2M glider which he is looking forward to flying with the club. The February minutes and the Treasurer's report were accepted as written. HSS' 1993 membership total currently stands at 102.

Andy Sanders talked about a recent meeting with the city of Costa Mesa. An archeology survey is ongoing to determine the precise sites of the Indian burial grounds at Fairview Park. Frank discussed the proposed movement and grading of dirt mounds. Work crews and their equipment will be kept out of the flying areas if at all possible.

Pete Young talked about upcoming contests and newsletter activities. He reiterated that checking with contest CDs before travelling to other areas is highly recommended.

Bob Sliff passed out a current Hobby Horn listing and recapped new products coming out from JR and Airtronics. A production run of upgraded Vision 8SPs is expected soon, but may be in short supply.

Pete Young talked about the March club contest and passed around a copy of Frank Weston's WACO Newsletter, which he recommends highly for technical information useful to glider fliers. (\$15/year, 6 issues, contact Weston Aerodesign, 944 Placid Ct., Arnold, MD 21012)

Roger Lackey showed a sample of hats available for club members, and asked all interested to contact himself or Frank to sign up.

Ross Thomas mentioned the upcoming Tri-Cities Challenge ("Toilet Bowl Contest") which is scheduled for March 13th. All club members were asked to participate, and a pizza party is planned after the flying events.

George Siposs passed around a book depicting full scale Hungarian gliders - this may be borrowed by interested club members.

The meeting closed at 8:20 with "show and tell" following.

Andy Sanders brought in a 2M Rich Ernst kit, the Vortex, produced by Gold Coast Avionics. George Siposs showed a large wingeron thermal machine. Dave Nemecek brought in a flawless Falcon 880, just completed.

The guest speaker, Mike Taibi of Superior Balsa, was introduced by Andy Sanders. Mike talked about the different ways of selecting and cutting balsa for specific applications. The steps required to bring balsa to its finished form were discussed, along with some of the problems with obtaining contest grade wood. Balsa stock is getting heavier each year and Mike feels that this could be caused by rain forest harvesting, droughts, etc.

Balsa samples were passed out to illustrate differing balsa grades and densities. A die cutter was passed around with a complete explanation of its fabrication process. Superior Balsa has just introduced a foam wing cutting service since this represents potential new growth for the model industry.

Woody Grosvenor, Secretary

FYI

...at 1993's season opening February SC2 tournament hosted by Inland Soaring Society in Riverside, HSS topped the club scores with strong performances by Roger Lackey, Don Edberg, Ben Clerx, and Manny Tau...with his trophying in Sportsman, Manny advances to SC2-Expert ranking ...a moment of silence, please, for Connie Wilhite's metallic blue Paragon, blew up on launch at the March HSS Monthly...HSSers in the news: in the current model mags, did you spot Ben Clerx, Manny Tau, Jim Parsons, George Siposs, and Chuck Hollinger?...a well deserved HSS honorary membership and the club's thanks to Maxine Thomas for her many hours of service to the club...a Down In Front award to the nameless HSSer who, while handlaunching his hand launch sailplane, hit himself in the back of his head...PLEASE NOTE that the HSS April meeting is April 7th and the HSS April Monthly is April 18th...**FLASH NEWS:** Flite Lite Composites has changed hands again. New owner Fred Weaver will run the company; Ron Vann and his employees will continue sailplane production, Airtronics Specialty Division will market and sell the sailplanes - Falcons and Thermal Eagles. If you want to get into F3B with the world's top sailplane, don't call ASD: rights to the F3B Eagle have been sold back to Mark Allen, the original owner of Flite Lite! (Thanks to Ben Clerx for the info)... results from the 2nd Tri-Cities Challenge, AKA Toilet Bowl Tournament: HSS tidily flushed away a strong challenge by the EDSFers, with SULA conspicuously absent...Sean Monahan and Roger Lackey tied for individual firsts ... the unusual tasks proved to be fun for fliers and spectators, more details next month...

SPARKS & HIGH STARTS

by Bob Walker

Pete Young asked me to go into a little more detail on the Astro Champs cargo event. The rules were as follows: 100 inch maximum wingspan, 1200 square inch area, looking down on everything you see - wing, stab, fuselage, spinner, etc - powered by an Astro 05 motor and using no more than 7 cells. Take off in 200 feet, fly for one minute minimum, and touch down on the same 200 ft stretch of runway used for takeoff.

Qualifying flights were flown with 4 lbs of lead, each ensuing flight added weight until Chuck Hollinger flew to victory at 10 lbs, 4 oz.

The specs on Chuck's plane are: wingspan 98", powered by an Astro 05 FAI 6 turn motor. The airfoil is a Wortmann 137, wing loading without cargo is 9.5 oz/ft² @ 65 oz. Wing loading was 33 oz/ft² at 10 lbs, 4 oz.

Tim Beegan's machine had a wingspan of 94 inches, also powered by an Astro 05 FAI 6 turn motor. Tim is using a Spica airfoil. Empty weight is 80 oz, wing loading 11.76 oz/ft². Tim flew 8 lbs 13 oz for third place. Low batteries didn't get him home at 9 lb, 4 oz.

The 1993 event probably will be flown in November at Mile Square. However, I'll keep you posted on where and when, and any rules changes.

I'd like to make the following comment about the rules. How about giving these very talented designers a free hand? For example, use any 05 motor and a seven cell pack, and leave the rest up to their imagination!

PILOT OF THE MONTH

HSS' POM for April is Manny Tau, a superb flier, talented writer, and all-around interesting guy. Without further ado, here's Manny ...

OCCUPATION: Psychotherapist in private practice with La Paz Psychological Group. Areas of specialties include outpatient/inpatient adolescent and family therapy, and forensics.

STARTED FLYING SAILPLANES: I started flying about 3 years ago with a Gentle Lady that didn't last very long ... I was attempting loops and rudder rolls ... then WHAMMO!... terra firma! My first winch experience was about 1 1/2 years ago. It was exciting as I almost blew up a Weston Aerodesign Fun, but I was hooked! (no pun intended)

REASON FOR INTEREST: Flying R/C sailplanes is cheaper than a Harley, safer than skiing, and free of saturated fats. After being cooped up in my office at the hospital all day, the thought of thermalling under a backdrop of clouds or screaming down a windy slope becomes a much needed temporary escape. Human suffering gets a little old after a while without a break.

STRENGTHS: I find myself eager to learn, willing to ask, and accepting of my blunders, of which I've made many. My learning curve is fairly steep, and I'm willing to take advantage of others' experience and criticisms. I've always kept in mind an old aphorism: "There's plenty of room at the top. Competition is at the level of mediocrity."

FAVORITE PART OF THE HOBBY: People and competition! I've met some of the warmest and most interesting people with this hobby. I also truly enjoy the competitions and having the opportunities to learn and improve.

GOALS FOR 1993: I enjoy the different aspects of sailplane flying: thermal duration, F3B, slope racing, and hand-launch. My goals are to continue flying on the contest circuits, and just do the best I can without losing sight of having a good time. My ultimate goal is to make the US Soaring Team.

CURRENT R/C SAILPLANES: Molded Modi 900, Thermal Modi 900, Swift 800, Comet 89T, Vertigo HL, Weston Fun, and a Noel Jones Tercel (remember this old gang ... Jack Chambers, Noel, and Scott Metzger?)

FAVORITE R/C SAILPLANE: The Molded Modi 900 with the RG-15 airfoil. I really enjoy doing a "gorilla" zoom off the winch, skying out, pointing the nose down for speed, then bank and yank...

ADVICE FOR BEGINNERS: Try everything. And when you've had enough, do it again. And during all of this, ask everyone everything that's on your mind. Learn all, accept all, do all.

In the perspicacious words of Bill Cosby, "Keep an open mind. But don't let it be so open, that your brains fall out!"



POM Manny Tau, on his way to another high-scoring flight with his Modi...

CONTEST LISTINGS

<u>Date/Location</u>	<u>Event</u>	<u>Point of Contact</u>	
4/3 Carson	SULA 2M/SULABIRD	G. Boss	310 541-6296
4/3-4 Fresno	Fresno Classic	G. Meyers	209 449-0216
4/4 San Diego	Thomas 2M Contest	R. Anderson	619 286-8366
4/17 Long Beach	EDSF Monthly/2M	D. Wilson	310 866-0160
4/18 Carson	SULA Monthly/Open	G. Boss	310 541-6296
4/18 Costa Mesa	HSS Monthly	B. Sliff	714 893-8311
4/25 San Marcos	SC2 Tournament	Ken Raymond	619 748-3692
5/1-2 Pasadena	12th Annual Rose Bowl Soaring Festival	R. Burns	818 812-0491
5/2 San Diego	Merrifield 2M Contest	A. Orona	619 571-0358
5/15-16 California Valley	F3H Cross Country	M. Hadley	805 922-5147
5/29-30 Costa Mesa	18th Astro Flight Champs	R. Thomas	714 638-0705
6/19-20 Visalia	North/South Challenge	CVRC	209 733-3390

Note: for detailed information, contact the individuals listed. Not responsible for changes or cancellations. For any clarifications, contact Pete Young.

MARCH HSS MONTHLY

A clear and cloudless sky with temperatures predicted in the high 80's greeted the fliers at the March Monthly. CD Pete Young announced the format: 20 minute add 'em up, 3 rounds, with 4 minutes minimum, 8 minutes maximum per round. Landings were scored 25 points "on or off" the 25' tape.

Despite the bright sunshine and clear conditions, thermal activity was surprisingly spotty and tricky to locate. As coastal winds came up in the second and third rounds, riding wave lift off the point seemed to be the best strategy for long air times. Field conditions, despite the large pond in the center, were surprisingly good with soft grass underfoot - enjoy the soft landings while it lasts!

In 2 Meter, Frank Chasteler repeated last month's win with his Airtronics Whisper, with Bill Duncan and Ross Thomas finishing 2nd and 3rd with Gnomes.

Andy Sanders won Sportsman with his original design and with this win, moves to Advanced. Mike Aguirre topped Advanced with his Shadow, followed by Manny Tau flying a Greco Duration Modi.

Bob Sliff won Expert with his Falcon 880, with Randy Bratrud in second with his polyhedral Sagitta 900; Steve Hendry took third with his composite original.

The add 'em up format made for interesting tactics and seemed to be well received by the fliers. Thanks to all the club members volunteering their time with winches, retrievers, admin, and at the landing circles. Special thanks to Maxine Thomas for handling registration and scoring.

reported by Pete Young

...here's some recent correspondence from an old friend ... PWY

Dear Pete,

I'd like to give you the current status of a new materials product with intriguing physical properties. As a spinoff of SDI technology development, the Department of Materials Science at MIT has produced small quantities of ultra-lightweight polymer foams with specific gravities within .005% (that's 99.995%!) of ambient air at sea level conditions. These gels are so light that they "float" in air!

Potential applications were intended for classified weapons systems; with the demise of the Cold War, numerous civil applications have been proposed. The polymer foams' material properties are flexible and easily modified with standard laboratory techniques - neutrino bombardment, plasma radiation, etc. - readily available to high-tech development agencies.

After much experimentation, I was able to produce small quantities of foam with physical properties similar to balsa wood. About twelve sheets were obtained varying in thickness from 1/32" to 3/16", linear dimensions 3" by 36", standard dimensions for hobby shop balsa, coincidentally.

Unlike balsa wood, however, these sheets as claimed, "float" in air and must be weighed down to keep them from drifting off the workbench. Their mechanical properties, by design, are similar to balsa, properties obtained by successive dosages of gamma ray exposures at 125 MEV; further details are, unfortunately, proprietary.

I have built some model aircraft structures to obtain "real world" experience with this revolutionary material. All that I am permitted to divulge at this time is that the initial results are very encouraging. Proprietary adhesives are required for optimum bonds, otherwise, the polymer material is easy to work using standard construction techniques. Strength and stiffness properties are exceptional due to the radiation treatments; once the foams' material properties are completely characterized, radical aircraft configurations may be possible with performance much superior to conventional practice - as in the case of the Rutans' round-the-world Voyager!

Detailed discussions are underway with

competition modellers to develop innovative model aircraft, world class level, which can fully exploit this exciting technology. Serious negotiations have been initiated with several manufacturers, both foreign and domestic, to produce commercially viable designs. I have been informed that an Unlimited Sailplane design prototype is scheduled to be flight tested April 1st in the Southern California area.

The future prospects for lightweight polymer foams for model aircraft appears limitless! Incidentally, entrepreneurial investment opportunities are available to legitimate investors; in my next letter, I will provide more details.

As ever,
(signed)

Dr. Loof Lirpa, PhD
Massachusetts Institute of Technology
Department of Materials Science
Cambridge, MA 02139

Editor's note: how about that, folks! Is this exciting news or what? Stay tuned!



Previously unpublished picture of noted So Cal flier Manny Tau, restraining his Modi from rising into the clouds - could this be the first glider to use Ultra Lightweight Polymer Foam technology?

HOBBY HORN

15173 MORAN ST. // P.O. BOX 2212
WESTMINSTER, CA 92683
(714) 893-8311 PHONE // (714) 895-6629 FAX

MONTHLY SPECIALS ON RADIOS, PARTS AND ACCESSORIES
(Specials listed below are only good for the month of this special flyer.)

MARCH, 1993

JR RADIOS

	LIST PRICE	HH PRICE
X-347 FM W4-507 SERVOS	\$529.95	\$358.95
X-347 FM W4-517 SERVOS	\$589.95	\$377.95
X-347 PCM W4-517 SERVOS	\$619.95	\$389.95
X-347 PCM W4-517 SERVOS	\$659.95	\$418.95
X-388S* FM AC W4-507 SERVOS	\$609.95	\$389.95
X-388S* FM AC W4-517 SERVOS	\$679.95	\$429.95
X-388S* PCM AC W4-517 SERVOS	\$749.95	\$469.95
X-388S* PCM AC W4-4131 SERVOS	\$939.95	\$579.95
X-388S* FM GLIDER W2-341 SERVOS	\$699.95	\$439.95
X-388S* PCM GLIDER W2-341 SERVOS	\$769.95	\$479.95
MAX 4 AM W/5 507 SERVOS	\$199.95	\$118.95
MAX 4 AM GLIDER W/2-341S + 270 PK	\$249.95	\$159.95
MAX 4 FM W/5-507 SERVOS	\$249.95	\$139.95**
MAX 6 FM W/4-507 SERVOS	\$319.95	\$179.95**

* New increased capability radio based upon the X347. Now features 8 model memory and more glider features. Four pages of information sheets will be sent upon request.
** \$10.00 EXTRA FOR #228 "Credit Card" RX

JR SERVOS

607 Standard servo	\$29.95	\$15.95
517 Standard WBB	\$39.95	\$24.95
4131 Ultra precision/coreless	\$39.95	\$50.95
4721 Ultra torque/coreless	\$99.95	\$64.95
4735 Ultra speed/coreless	\$99.95	\$64.95
901 Mid size	\$59.95	\$34.95
9021 Mid size/coreless	\$79.95	\$47.95
321 Mini	\$59.95	\$34.95
341 Micro	\$59.95	\$34.95
3021 Mini/coreless	\$79.95	\$47.95
3025 Mini highspeed/coreless	\$89.95	\$52.95
605 FET high power	\$109.95	\$64.95
7005 Low profile/coreless	\$109.95	\$64.95

JR ACCESSORIES

001 DELUXE SWITCH HARNESS, GOLD	\$12.95	\$11.66
002 STANDARD SW HARNESS, SILVER	\$10.95	\$9.86
003 SMALL SW HARNESS	\$9.95	\$8.06
004 CHARGE SWITCH HARNESS	\$19.95	\$16.75
100 ALERON EXTENSION 12", GOLD	\$7.95	\$7.16
270 RX 270 MAH PACK	\$19.95	\$17.96
5001 RX 500 MAH SQ PACK	\$19.95	\$17.96
PCMR RX PACK 910 RX AND TX MOD.	\$259.95	\$159.95
FM RF PACK 357 RX AND TX MODULE	\$169.95	\$114.95

JR RECEIVERS

228 FM RX, 8 CH CREDIT CARD 72MHZ	\$189.95	\$119.95
527 FM RX, 7 CH MINI	\$139.95	\$84.99
528 FM RX, 9 CH 50/53/72 MHZ	\$144.95	\$89.95

JR RECEIVERS (CONT)

	LIST PRICE	HH PRICE
236 PCM RX, 6 CH CREDIT CARD 72	\$184.95	\$129.95
910 PCM RX, 10 CH 50/53/72 MHZ	\$199.95	\$129.95
940 PCM DUAL CONV, 10 CH 50/53/72	\$229.95	\$149.95

JR SERVO GUIDE (28 PAGE GUIDE TO ALL JR SERVOS. GIVES FULL DETAILS ON ALL JR SERVOS, WITH MANY PICTURES AND ALL DATA) FREE WITH ORDER IF YOU REQUEST ONE, OR SEND \$5.00 TO COVER POSTAGE.

AIRTRONICS:

V64R VANGUARD FM 4 CH W/3 102s	\$249.95	\$129.95
V64DR VANGUARD FM 6 CH W/4 102s	\$319.95	\$169.95
160F INFINITY 600 FM W/4 102s	\$599.95	\$339.95
160P INFINITY 600 PCM W/4 102s	\$649.95	\$384.95
160F INFINITY 660 FM W/4 102s	\$679.95	\$379.95
160P INFINITY 660 PCM W/4 102s	\$729.95	\$401.95
V83SP VISION FM, 72 MHZ	\$999.95	\$589.95
V83DP VISION PCM, 72 MHZ	\$1049.95	\$629.95
102 STANDARD SERVO	\$34.95	\$15.95
831 MINI SERVO	\$49.95	\$27.95
141 MINI METAL GEAR SERVO	\$79.95	\$39.95
745 FM MICRO 4 CH RX	\$99.95	\$75.95
765 FM STD RX 8 CH	\$89.95	\$69.95
985 PCM RX 8 CH	\$189.95	\$133.95

FUTABA

4NLB AM 4 CH W/3 148 SERVOS	\$244.95	\$116.95
4NLB AM 4 CH ELECTRIC	\$299.95	\$181.95
4NBFG FM Glider Radio, R127DF RX 270		
PACK, W/3 S-133 SERVOS	\$299.95	\$174.95
S-148 STD SERVO	\$39.95	\$16.95
S-133 MICRO SERVO	\$59.95	\$29.95

GENERAL

SERVO SAVERS (FOR YOUR FLAPS)		
FOR AIRTRONICS OR JR SERVOS	\$3.00	\$2.25
FOR AIRTRONICS OR JR SERVOS	\$3.00	\$2.25
HOBBY HORN SUPER DUTY TOW HOOK		\$2.50
HOBBY DYNAMICS DIGITAL MINI TACH	\$49.95	\$30.95
HD EXPANDED SCALE VOLT METER	\$19.95	\$14.95
FEATHER CUT MACHINE		\$149.95

NOTE: WHILE I CARRY SOME OF THE ITEMS ABOVE IN STOCK, MANY OF THEM ARE ORDERED FROM OTHER SUPPLIERS. I WILL MAKE EVERY EFFORT TO CARRY THE ITEMS YOU WANT. HOWEVER, I AM NOT RESPONSIBLE TO CARRY STOCK AT OUR SUPPLIER. MOST OF THE ITEMS ARE OBTAINABLE WITH ONLY ONE OR TWO DAYS DELIVERY. (TO OUR SHOP) JUST USE US A CALL WITH YOUR DESIRE, AND WE CAN CHECK AND CALL YOU BACK WITH AVAILABILITY AND DELIVERY TIME (WE CARRY ON FUTABA AND ON SOME AIRTRONICS) IF YOU WANT. (WE CAN ALTERNATE IF YOU CAN.)

AS THE PRICES FROM OUR SUPPLIER ARE BASED UPON HIS SPECIALS WHICH CHANGE MONTHLY, OUR PRICES ON THE ABOVE ITEMS MAY NOT BE VALID OUTSIDE OF THE MONTH OF THIS FLYER. IF YOU DO NOT HAVE A CURRENT MONTHLY FLYER, CALL FOR CURRENT PRICES.

THANKS, BOB SLIFF, JCBYVZ

FOR SALE

- Harbor Soaring Society shirts and vin, patches - contact Frank Chasteler at (714) 545-2185
- LJM Cheetah with flaps, ailerons, new 600 mah RX pack, with Vision radio, ready to fly, \$625 OBO; Sealy Pulsar, 95% complete, wings covered, fuselage ready to paint, \$250 OBO. Call Rich at 714 528-4984.
- Falcon 800, like new condition, with integral wiring harness and carbon fiber skegs, \$350 OBO, call Ben at (714) 721-8848.
- Weston WACO Magic, completely ready to fly, 6 servos, JR X347 radio system, \$700 OBO. Bob Sealy javelin flying wing, ready to fly less equipment, \$40. Call Carl at (714) 537-8180.
- Futaba 5 channel PCM, 6 S148 servos, 1 extra crystal, ch 34, \$175. Airtronics Vision tx and rx modules, ch 48, \$60. Sagitta 900 kit, NIB, \$80. Gnome 2M kit, NIB, \$30. Southern Cross Stinger sloper, ready to fly, \$100. Goldberg Mirage 550, with BB 05 motor, Astro speed control, 2 servos, airborne rx pack, ready to fly, \$190. Call Steve @ 714 645-0459.
- VOR-2500, 100" Italian sailplane, ready to fly, two wing sets. \$80 OBO. Call George at 540-5452 (h).
- Sealy Laser - kit new-in-box. For price, call Mike at (310) 439-4173.
- Airtronics Adante, NIB, \$75. Call Pete @ 714 892-3473.
- Airtronics Module 7SP radio system, \$200 OBO. Call Ed Hawley at (714) 821-8768.
- 2M (78" span) Sealy Lumina - glass fuse, T-tail, NEW polyhedral wing with flaps. Buyer needs to cut out flaps and cover wing. Price includes a wing bag. \$125 - firm. LJM Cheetah, ready to fly, less RX, includes wing bag, \$265 OBO. Gnome 2M ready to fly, less RX, includes wing bag, \$100 OBO. Gnome HLG, less radio, ready to fly, \$50 OBO. LJM Panthera ready to fly, less RX, includes wing bag, \$175 OBO. 2 Airtronics Vanguard radio systems, less servos, includes TX bag, channels 28 and 56, each \$125 OBO. NEW, never used: 5/16" wing rod, 8 3/4" long. Contact Curt @ (714) 592-2105.

WANTED

- Super Tigre 35 G21 glow or similar cross scavenged engines, circa 1960-70. Call George at (714) 498-2754

If you have any other requests, call for my best quote.

CVRC SPONSORED NORTH / SOUTH CHALLENGE

This contest is a revival of the North South Challenge of the 1970's. It is a team concept contest pitting the skills of the pilots from the North against the South. There will be no club affiliation only The North Team and The South Team.

This is an AMA sanctioned event and all AMA rules apply; radio equipment must comply to 1991 specifications. AMA Membership required. Pilots must show AMA card.

DATE: JUNE 19 & 20, 1993

TIME: CHECK IN - 7:00AM and PILOT MEETING - 8:00AM EACH DAY

LOCATION: CVRC FLYING FIELD, VISALIA CA - 1/2 MILE EAST OF PLAZA DRIVE
ON FERGUSON

ENTRY FEE: \$25.00 Preregistration \$30.00 On the Field

EVENT: UNLIMITED CLASS

LSF: We are using the LSF format for landings. The total of each days rounds can be used for an LSF contest. And we will have a cross country course set for attempts after the regular rounds are finished both days.

TASK:

SATURDAY - JUNE 19

SUNDAY - JUNE 20

Round 1 - 3 minute PD
Round 2 - 5 minute PD
Round 3 - 8 minute PD
Round 4 - 6 minute PD
Round 5 - 4 minute PD
Round 6 - 3 minute PD
Round 7 - 2 minute PD
No Round starts after 4:00PM

Round 1 - 2 minute PD
Round 2 - 7 minute PD
Round 3 - 7 minute PD
Round 4 - 3 minute PD
No Round starts after 1:00PM

FLIGHT TIME SCORING: ONE POINT PER SECOND TO TARGET TIME. TWO POINTS PER SECOND DEDUCTED OVER TARGET TIME.

LANDINGS: A 1.5 meter circle inside a 3 meter circle will be worth 20% of the maximum score for a flight. The 3 meter circle will be worth 10% of the maximum score for a flight. The 1.5 meter circle will be worth 5% of the maximum score for a flight. Landing on the lawn is worth 10% of the maximum score for each flight. The 3 meter circle is located 100 feet north of the line, 100 feet east of the line, and 100 feet south of the line.

Who is on

TEAM 1
WINNER
TEAM 2

DATE: JUNE 19 & 20, 1993

Name: _____ State: _____ Zip: _____
City: _____
Phone Number: _____ Frequency: 1st _____ 2nd _____
AMA Number: _____

TEAM INFO

BBQ Dinner: \$9.00 each served on the field Saturday after the flying.
Number of dinners _____
Entry Fee @ \$25.00 _____
Total Cost _____ @ \$9.00 each

Make Check to: _____
Return to: _____

CVRC
209-733-3390
P.O. BOX 3223
VISALIA, CA 93278

209-686-8867

TEE Shirts: Available
Raffle: NO Raffle.
Food: Lunch Truck

both days. Saturday evening BBQ by the Fall Fest Caterers



NORTH COUNTY CLOUDS APRIL SC² CONTEST ANNOUNCEMENT

WHERE:

North County Clouds Field In San Marcos, CA.
Located at the Intersection of Linda Vista Rd.
and Via Verz Cruz. Map on reverse side.

WHEN:

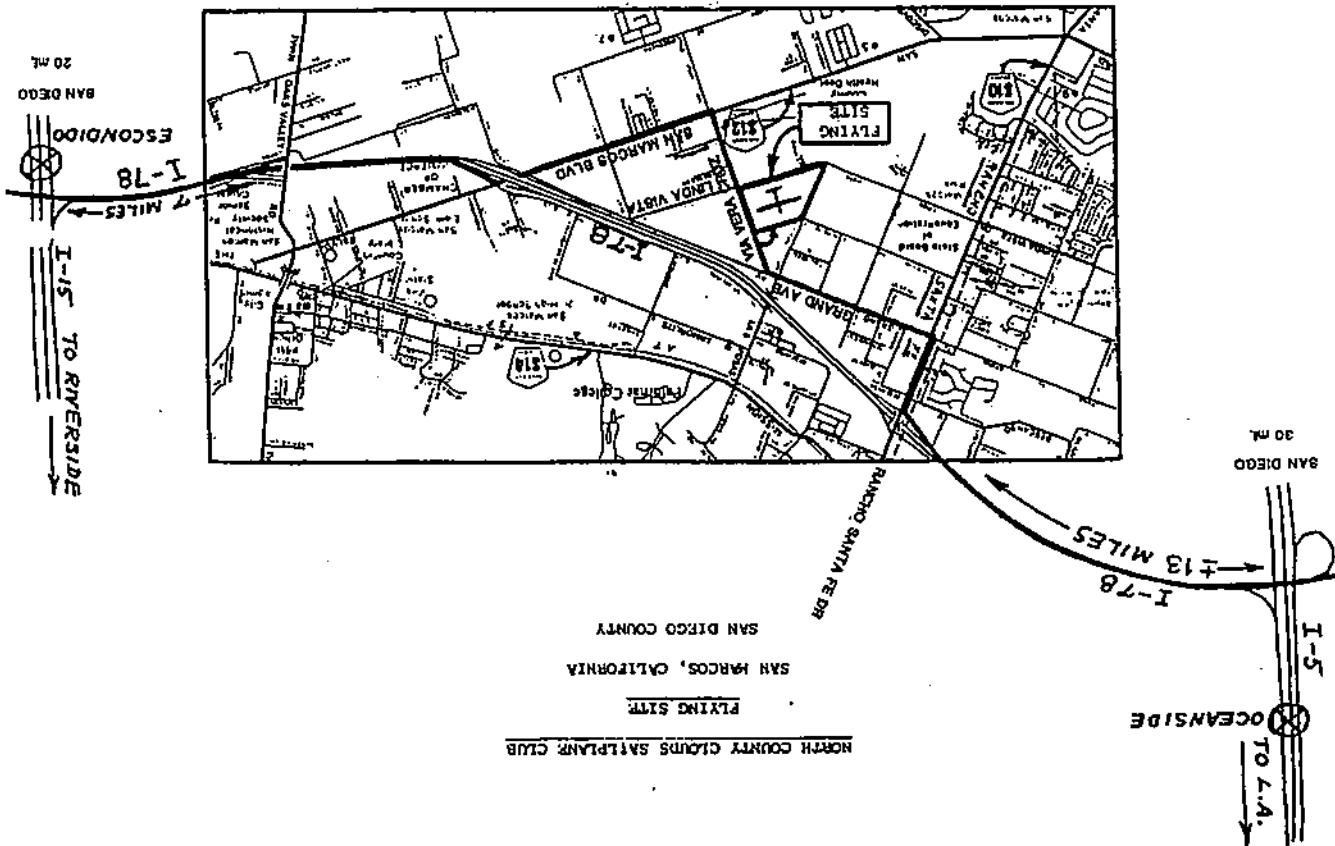
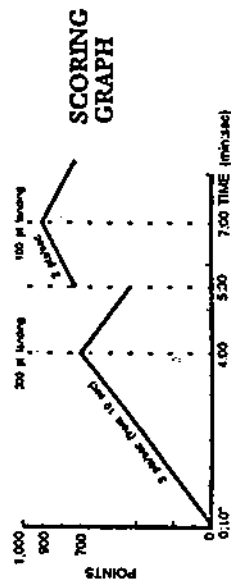
April 25, 1993. Pilots meeting at 9 AM. Registration
begins at 8 AM.

EVENTS:

- 3 rounds of Thermal Precision Duration-
All landings scored on 25' runway. Approaches
through landing cones.
- Round 1- 3 minute Precision Duration
Scoring= 900 flight points (linear), 100 landing points.
- Rounds 2 & 3, your choice while flying, 4 or 7 minutes.
 - Target time 1=
 - 4 minute duration scored at 3 points per second
penalty (from 4 minutes), 700 maximum flight points.
 - 300 landing points on 25' runway. Times over 5:30.00*
scored as Target Time 2 (7 minute).
 - Target time 2=
 - 7 minute duration scored at 2 points per second
penalty (from 7 minutes), 900 maximum flight
points. 100 landing points on 25' runway. All flights
over 5:30.00* scored as a 7 minute flight.

DETAILS:

Open launch order. Cut-off times announced for
each round. Crowded frequencies subject to
call-up. SCSC rules in force. NCC field rules must
be observed. CD Ken Raymond (619) 748-3692.



ASTRO FLIGHT CHAMPIONSHIPS

THE HARBOR SOARING SOCIETY WOULD LIKE TO INVITE YOU TO THE ...

19TH ANNUAL ELECTRIC FLIGHT R/C CHAMPIONSHIPS

The 18th Annual Astro Flight Electric Champs will be held on Saturday and Sunday, May the 22nd and 23rd, 1992 at Fairview Regional Park, Costa Mesa CA. The events will be 7-cell Sailplane and Old Timer, Unlimited Sailplane and Old Timer, (and 7 Cell Pylon To-Be-Determined) SAILPLANE and OLD TIMER rounds one, two and three will be limited motor run with thermal duration and runway landings, and will be scored man-on-man. The motor run, duration, and landings will be as follows:

ROUND 1	7-Cell Sailplane	7-Cell Old Timer	Unlimited Sailplane	Unlimited Old Timer
Motor run	20 seconds	30 seconds	10 seconds	20 seconds
Duration	3 minutes	3 minutes	3 minutes	3 minutes
Landing	100 points	10 points	100 points	10 points
ROUND 2				
Motor run	40 seconds	50 seconds	20 seconds	30 seconds
Duration	7 minutes	7 minutes	7 minutes	7 minutes
Landing	100 points	10 points	100 points	10 points
ROUND 3				
Motor run	30 seconds	40 seconds	15 seconds	25 seconds
Duration	5 minutes	5 minutes	5 minutes	5 minutes
Landing	100 points	10 points	100 points	10 points

ROUND 4
Round four will be a 5 minute penalty-duration with the same landings as the previous rounds. Time will start when the model becomes airborne. A second timer will keep track of the motor run which will be subtracted from the total flight time. Motor run is unlimited but for one run only at the discretion of the pilot. Scoring will be straight points per second with all classes flying the same task.

7 Cell Pylon Racing: Interested pylon racers should contact Ross Thomas ASAP as presently, there is insufficient interest to justify the event. This event will be held only if sufficient fliers (8 to 10) indicate a willingness to participate.

YES! I WANT TO ENTER!

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE# _____

AMA# _____

.. 7 CELL SAILPLANE [CH # _____]

.. 7 CELL OLDTIMER [CH # _____]

.. UNLIMITED SAILPLANE [CH # _____]

.. UNLIMITED OLD TIMER [CH # _____]

.. 7 CELL PYLON [CH # _____]

NUMBER OF ENTRIES []

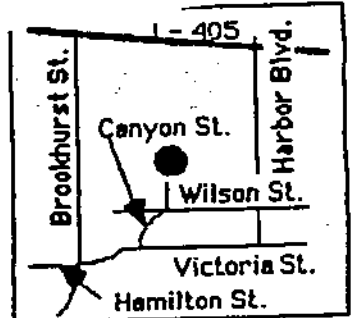
TOTAL \$ ENCLOSED [\$ _____]

ENTRY FEE: \$10.00/FIRST EVENT, \$5.00 FOR EACH ADDITIONAL EVENT

Send entries to: Ross Thomas (CD)
1406 N. La Bonita
Santa Ana, CA 92703
(714) 638-0705 (after 6PM)

AMA SANCTIONED
AMA LICENSE REOD.
May 22 and 23, 1993
Fairview Regional Park
Registration 8:00 AM
First Round 9:00 AM

Trophies will be awarded to third place in each class. There will be a pilots/workers drawing for valuable merchandise prizes donated by Astro Flight and several other manufacturers.



JOIN
The ELECTRIC
AEROMODELING
ASSOCIATION

**SOUTHERN CALIFORNIA SOARING CLUBS
CONTEST RESULTS FOR MARCH, 1993 CONTEST
SPONSORING CLUB: INLAND SOARING SOCIETY**

**HARBOR SOARING SOCIETY MONTHLY CONTEST
MARCH, 1993
OPEN DIVISION**

PLACE	NAME	CLUB	CLASS	SCORE	NORMALIZED	TROPHY
1	SAGE FRED	TPG	EXPERT	2947.9	1000.0	1ST. EXP.
2	SADORF STAN	ISS	EXPERT	2945.0	999.0	2ND. EXP.
3	REAGAN MIKE	TOSS	EXPERT	2944.6	998.9	3RD. EXP.
4	EDBERG DON	HSS	EXPERT	2938.5	996.8	4TH. EXP.
5	LACKEY ROGER	HSS	EXPERT	2925.0	992.4	5TH. EXP.
6	SNEDDEN JERRY XX	ISS	SPORTSMAN	2913.8	988.4	1ST. SPTS.
7	LEPPLA FRANK	PSS	EXPERT	2908.8	988.7	
8	MATSUMOTO BEN	PSS	EXPERT	2906.7	988.0	
9	CLERX BEN	HSS	EXPERT	2895.2	982.1	
10	MCNAMEE ART	TOSS	EXPERT	2884.3	978.4	
11	BURNS RICHARD	PSS	EXPERT	2880.8	977.2	
12	STROBEL RICH	TPG	EXPERT	2870.8	973.6	
13	BIKLE JOHN	EDSF	EXPERT	2867.6	972.6	
14	SKINNER JIM XX	EOSF	SPORTSMAN	2856.8	969.1	2ND. SPTS.
15	ADDIS STEVE	SULA	EXPERT	2845.9	965.4	
16	RAYMOND KEN	INCC	EXPERT	2843.1	964.4	
17	JOY GEORGE	TPG	EXPERT	2838.9	963.0	
18	DOUGLAS IAN	SWSA	EXPERT	2838.2	962.8	
19	TAU** MANNY XX	HSS	SPORTSMAN	2838.4	962.2	3RD. SPTS.
20	MORTON RICHARD XX	TPG	SPORTSMAN	2818.2	955.3	
21	NEHRING CURT	HSS	SPORTSMAN	2742.9	930.5	
22	THOMAS ROSS	HSS	EXPERT	2665.7	911.1	
34	FINK STEVEN	HSS	EXPERT	2663.0	903.5	
37	ATWELL BLAIR	HSS	EXPERT	2636.5	895.0	
46	PARSONS JIM XX	HSS	SPORTSMAN	2575.9	873.8	
58	SLIFF BOB	HSS	EXPERT	2521.7	856.4	
61	ANDERSON VAN	HSS	SPORTSMAN	2484.2	842.7	
62	AGUIRRE MIKE XX	HSS	SPORTSMAN	2471.7	838.5	
65	KUTCH NORM	HSS	EXPERT	2432.3	829.1	
70	CHASTELER FRANK	HSS	EXPERT	2396.4	813.6	
81	BRANDT DENNIS	HSS	EXPERT	1586.1	538.0	
84	BUZOLICH NICK	HSS	SPORTSMAN	0.0	0.0	

**MANNY TAU MOVES TO EXPERT

TEAM SCORES

CLUB	MEMBERS	TOTAL
HSS	16	3933.9
PSS	9	3901.4
TPG	10	3892.1
ISS	13	3852.2
TOSS	6	3817.1
EDSF	10	3739.8
SFV	4	3463.3
NCC	5	3387.8
SULA	7	3360.7
SWSA	3	2851.9
DUST	1	909.4
NRCS	0	0.0

APRIL MONTHLY

CD: Bob Sliff

DATE: Sunday April 18th, NOTE CHANGE!

LOCATION: Fairview Park

EVENTS: 2 meter and Unlimited

FORMAT: Round 1: 3 min precision, 900 flight pts max, 100 landing pts max, graduated circle landing, 25 foot tape.

Rounds 2 and 3: 4 or 7 min precision, pilot's choice. 700/900 flight pts max, 300/100 pts max, graduated circle landing.

STARTING TIME: Pilots' meeting 8:30AM, first flights at 8:45AM.

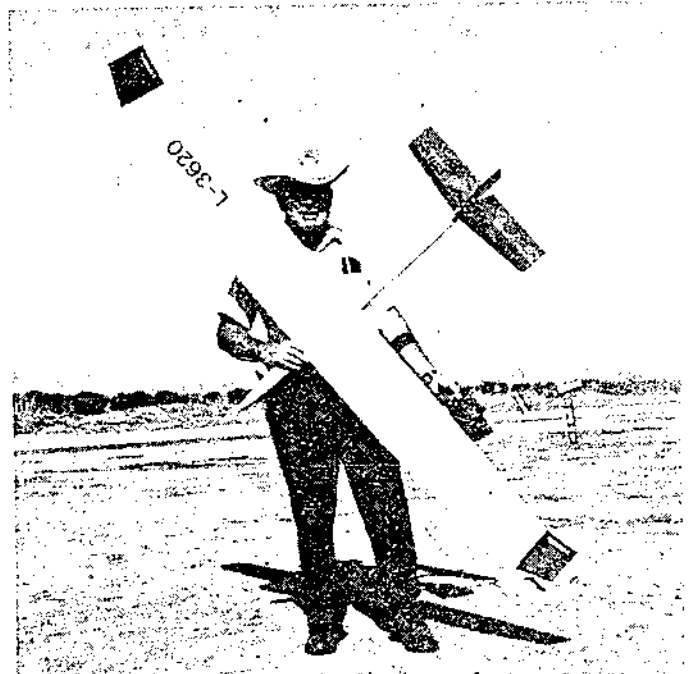
Flight order to be decided at the pilots' meeting.

PLACE	NAME	CLASS	SCORE	NORMALIZED	TROPHY
1	SLIFF BOB	EXPERT	1285.00	1000.00	1ST. EXP.
2	BRATRUD RANDY	EXPERT	1283.00	998.40	2ND. EXP.
3	HENDRY STEVE	EXPERT	1258.00	994.50	3RD. EXP.
4	CLERX BEN	EXPERT	1248.00	985.00	
5	CRON AL	EXPERT	1245.00	984.20	
6	AGUIRRE MIKE	ADVANCED	1241.00	981.00	1ST. ADV.
7	WHITE LARRY	EXPERT	1240.00	980.20	
8	TAU MANNY	ADVANCED	1233.00	974.70	2ND. ADV.
9	BIDDLE FRED	EXPERT	1216.00	961.30	
10	PARSONS JIM	ADVANCED	1195.00	945.50	
11	THOMAS ROSS	EXPERT	1192.00	942.30	
12	POULSEN GORDON	EXPERT	1191.00	941.50	
13	SANDERS** ANDY	SPORTSMAN	1185.00	937.50	1ST. SPTS.
14	YOUNG PETE	ADVANCED	1173.00	927.30	
15	VINCENT TOM	SPORTSMAN	1171.00	925.70	
16	DUNCAN BILL	EXPERT	1158.00	915.40	
17	RITSCHKE GORDON	EXPERT	1145.00	905.10	
18	LACKEY ROGER	EXPERT	1136.00	898.00	
19	KUTCH NORM	EXPERT	1094.00	884.80	
20	CHASTELER FRANK	EXPERT	1092.00	883.20	
21	PANTZAR DICK	EXPERT	1062.00	859.50	
22	NEHRING CURT	ADVANCED	1017.00	824.00	
23	FINK STEVE	EXPERT	977.00	772.30	
24	MONAHAN SEAN	ADVANCED	893.00	705.90	
25	STUBB PAUL	SPORTSMAN	322.00	254.00	
26	WILHITE CONNIE	GUEST	278.00	219.80	

**ANDY SANDERS MOVES TO ADVANCED

TWO-METER

PLACE	NAME	SCORE	NORMALIZED	TROPHY
1	CHASTELER FRANK	1170.0	1000.0	1ST.
2	DUNCAN BILL	1154.0	986.3	2ND.
3	THOMAS ROSS	1115.0	953.0	3RD.
4	KUTCH NORM	1075.0	918.8	
5	AGUIRRE MIKE	990.0	846.2	
6	FINK STEVE	987.0	843.6	
7	PARSONS JIM	962.0	822.2	
8	YOUNG PETER	951.0	812.8	
9	MONAHAN SEAN	930.0	812.0	
10	SLIFF BOB	894.0	764.3	
11	VINCENT TOM	883.0	754.7	
12	WHITE LARRY	788.0	662.1	
13	CONRAD WILL	477.0	407.7	
14	STUBB PAUL	308.0	263.2	



Frank Chasteler and his Airtronics Whisper, 2 consecutive 2M firsts at HSS' 1993 Monthlies!



The Oldest Chartered
Soaring Club
in the
A.M.A.



Charter # 128

APRIL MEETING

DATE: Wednesday, April 7th,
at 7:30 PM

LOCATION: Clubhouse at
Lakes at Seabridge
Condos. Refer to
instructions on page 1.

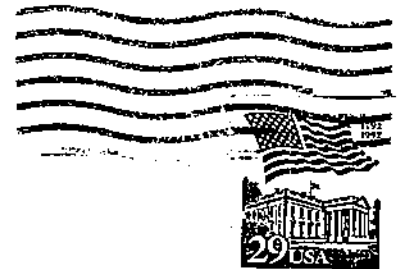
SHOW AND TELL: Bring in
your latest projects!

GUEST SPEAKER: Tim
Renaud from Airtronics!

IMPORTANT NOTE: The April
HSS Monthly is scheduled
for Sunday April 18th. Note
the change!



P.O. Box 1673
Costa Mesa, CA 92628



FIRST CLASS MAIL

WILL CONRAD
9359 SHRIKE AVE
FOUNTAIN VALLEY, CA 92708